

WireGuard VPN WISECP module

The module is intended as an opportunity for IT companies to expand their offering to customers by offering paid WireGuard VPN accounts. Once installed, the module will fully manage the creation, editing and blocking of WireGuard VPN accounts, as well as interact with the WISECP billing system, exchanging data necessary for settlements with clients, activation or blocking of services.

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- Client Area

- Product Home Screen

Description

WireGuard VPN module **WISECP**

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The WireGuard VPN module provides the ability to sell the Virtual Private Network service to customers.

Attention.

The module require the PUQVPNCP control panel with active license.

[PUQVPNCP Documentation](#)

[PUQVPNCP Download](#)

[PUQVPNCP Order now](#)

Requirements

WISECP: v3.1.5+, php: v8.x, Ioncube: V12+

PUQVPNCP: v1.8+

Supports protocols:

- WireGuard
- IKEv2

Module Functions:

- Auto create and deploy VPN account/accounts
- Suspend/Unsuspend/Delete/Change Package
- Module require active **PUQVPNCP** API (need separte license)
- Possibility to set Bandwidth speed limits

- Module supports multilingualism (**Arabic, Bosnian, Czech, German, Greek, English, Spanish, Persian, French, Hungarian, Indonesian, Italian, Georgian, Latvian, Dutch, Polish, Portuguese, Romanian, Ukrainian**)
- Link to instructions for setting up the service in the client area.
- Mechanism for working with servers and server groups

Available options in the admin panel:

- Create users
- Suspend users
- Unsuspend users
- Deleteusers
- Change Package
- VPN connection status

Available options in the client panel:

- Links in the form of buttons to the instruction and VPN clients
- General information about the service
- Password change option (for IKEv2)
- One-time link generation button for transmitting authorization data
- Option to download WireGuard configuration as a file
- QR code for WireGuard configuration
- Server certificate download button (for IKEv2)
- Download button for the profile for the strongSwan mobile application (for IKEv2)
- VPN connection status

Screenshot of the client area



Buy New Service

My Services

» VPN

My Domains

Support

My Account

Reseller Program

Knowledge Base



User manual



Download VPN client

VPN Protocols

WireGuard, IKEv2

Bandwidth download/upload

5/5 M

IP address

10.0.1.6

Username

puq-2-94-cloud

Password

Generate

BVBXHqTN

Create one-time link

Save

WireGuard configuration

WireGuard online: **yes**
213.134.190.109:13410
2023-11-19 22:40:26

DOWNLOAD CONFIG



[Interface]

Address = 10.0.1.6/24
DNS = 10.0.1.1,77.87.125.200
PrivateKey = PHLnQ8CUTCkygd38ZK9uPTbUSHhgLiGacTyclpiQouk=

[Peer]

Endpoint = 77.87.125.200:51821
PublicKey = qclMpOq4ztUV40UwMlfnE1St8oAHgVdAa8HIZ0Fh7nI=
AllowedIPs = 0.0.0.0/0

IKEv2 configuration

IKEv2 online: **not**

DOWNLOAD CERTIFICATE

DOWNLOAD Profile

Server: dev.softkeel.com

Username: puq-2-94-cloud

Password: BVBXHqTN

User manual

Download VPN client

VPN Protocols

WireGuard, IKEv2

Bandwidth download/upload

5/5 M

IP address

10.0.1.6

Username

puq-2-94-cloud

Password

Generate

8VBXHqTN

Create one-time link

Save

WireGuard configuration

WireGuard online: **yes**
213.134.190.109:13410
2023-11-19 22:40:26

DOWNLOAD CONFIG



IKEv2 configuration

IKEv2 online: **not**

DOWNLOAD CERTIFICATE

DOWNLOAD Profile

Server:	dev.softkeel.com
Username:	puq-2-94-cloud
Password:	8VBXHqTN

Screenshot of the Admin area

API Module

PUQ WireGuard VPN

API answer OK

Name	Password	Status	IP	Speed download	Speed upload
puq-2-94-cloud	BVEXHqTN	enable	10.0.1.6	5M	5M

Online

WireGuard Online	WireGuard Endpoint	WireGuard Latest handshake	IKEv2 online	IKEv2 Endpoint	IKEv2 Uptime
YES	213.134.190.109:13410	2023-11-19 22:47:02	n/a	n/a	n/a

0.0.0.0/0 -> 10.0.1.6 MARK 0x1010 Pkt:0 Bytes:0
10.0.1.6 -> 0.0.0.0/0 MARK 0x0000 Pkt:0 Bytes:0

ens18 --> class htb 1:2112 root leaf 2112: prio 0 rate 10Mbit ceil 10Mbit burst 1600b cburst 1600b
Sent 13040 bytes 55 pkt (dropped 0, overlimits 3 requests 0)
backlog 0b 0p requests 0

ens19 --> class htb 1:2112 root leaf 2112: prio 0 rate 10Mbit ceil 10Mbit burst 1600b cburst 1600b
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requests 0)
backlog 0b 0p requests 0

ens18 --> class htb 1:4112 root leaf 4112: prio 0 rate 10Mbit ceil 10Mbit burst 1600b cburst 1600b
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requests 0)
backlog 0b 0p requests 0

ens19 --> class htb 1:4112 root leaf 4112: prio 0 rate 10Mbit ceil 10Mbit burst 1600b cburst 1600b
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requests 0)
backlog 0b 0p requests 0

wg1 --> class htb 1:4112 root leaf 4112: prio 0 rate 5Mbit ceil 5Mbit burst 1600b cburst 1600b
Sent 20343 bytes 51 pkt (dropped 0, overlimits 10 requests 0)
backlog 0b 0p requests 0

Username

puq-2-94-cloud

Password

BVEXHqTN

Server

dev.softkeel.com - B

Dedicated IP

10.0.1.6

Overwrite package settings

☐

Overwriting the package settings is necessary to personalize the service if you need it.

Send changes to server

☐

To apply the changes on the server it is necessary to check this checkbox.

Update

Other

Dashboard / Module Settings / Other

Initial Settings

All Modules

PUQ WireGuard VPN

58T11Z

~1JASA

2023-12-18T10:38:13+01:00

Check and Save

Version: 1.0.1

Web Site

Documentation

Changelog

Add New Server

Server Groups

Servers

PUQVNCNP

10

Show Record

Search

#	Name	Status	Group	Default	IP/Domain	Usage Stats	
23	dev.softkeel.com - B	active	Default	✓	dev.softkeel.com	3/12	 
24	dev.softkeel.com - A	active	Default	⌚	466	0/44	 

Showing records from 2 to 1 - 2

Prev

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Next

Turn Back

Changelog

WireGuard VPN module **WISECP**

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v1.1 Released 15-02-2024

- Fixed a bug with some cases where it was not possible to delete the server
 - Improved security
-

v1.0 Released 06-12-2023

First version

Installation and configuration guide

Setup (install/update)

WireGuard VPN module **WISECP**

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To install and update a module, you must perform one and the same action.

1. Download the latest version of the module.

```
wget http://download.puqcloud.com/WISECP/Product/PUQ_WISECP-WireGuard-VPN/PUQ_WISECP-WireGuard-VPN-latest.zip
```

All versions are available: https://download.puqcloud.com/WISECP/Product/PUQ_WISECP-WireGuard-VPN/

2. Unzip the archive with the module.

```
unzip PUQ_WISECP-WireGuard-VPN-latest.zip
```

3. Copy and Replace "puqWireGuardVPN" from "PUQ_WISECP-WireGuard-VPN" to "WISECP_WEB_DIR/coremio/modules/Product/"

License Activation

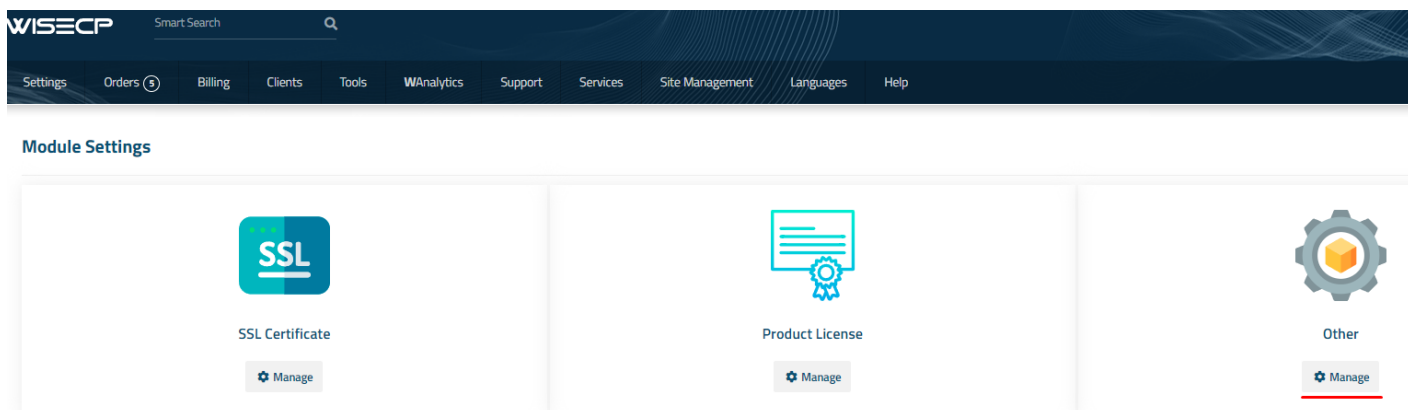
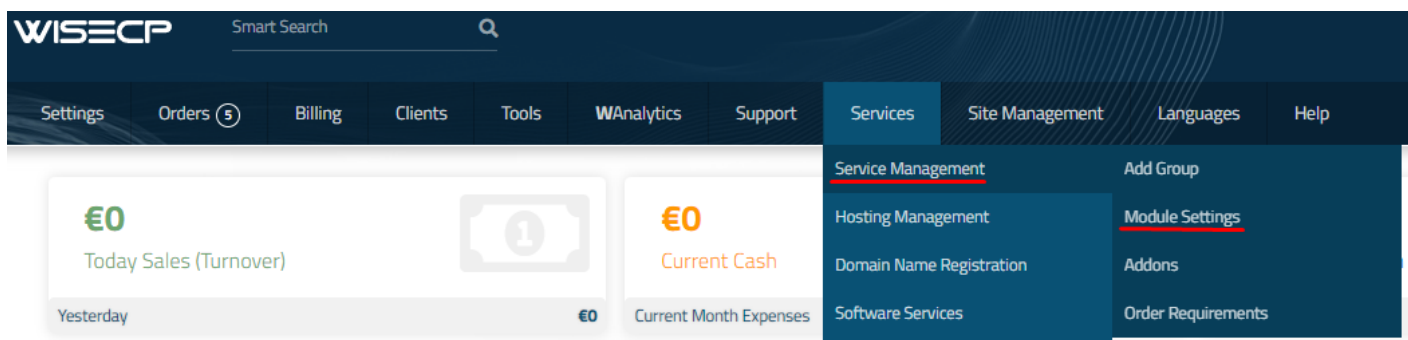
WireGuard VPN module **WISECP**

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1. Log in to the administrative area of your **WISECP**.

2. Go to module configuration.

Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ WireGuard VPN



Other

- Initial Settings
- All Modules

Other

- Initial Settings
- All Modules

Search Within Modules

Write something... Q

-
-
- PUQ WireGuard VPN
-

3. On the open page, enter the purchased license key for this product and click the '**Check and Save**' button to validate the key and save it.

Other

Dashboard / Modul

- Initial Settings
- All Modules

PUQ WireGuard VPN



License key

58T11Z-1J1ASA

2023-12-18T10:38:13+01:00

Check and Save

Version: 1.0.1

Web Site

Documentation

Changelog

PUQVPNCP installation and configuration

WireGuard VPN module **WISECP**

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Official documentation:

[PUQVPNCP Documentation](#)

[PUQVPNCP Download](#)

[PUQVPNCP Order now](#)

1. Install the required packages

```
apt-get update
apt-get install wireguard wireguard-dkms wireguard-tools -y
apt-get install iproute2 iptables -y
apt-get install bind9 -y
```

2. Download the latest version of the package

<https://download.puqcloud.com/cp/puqvpncp/>

3. Install the puqvpncp package

```
wget https://download.puqcloud.com/cp/puqvpncp/puqvpncp_XXXX_amd64.deb
dpkg -i puqvpncp_XXXX_amd64.deb
```

4. After installation, connect to your server via a web browser.

http://SERVER_IP:8098

Username: admin

Password: admin

The screenshot shows the PUQVPNCP web interface. At the top, there's a navigation bar with the PUQVPNCP logo, a help button, a user session indicator 'ruslan (79.184.10.59)', and a logout button. The main content area is divided into several sections:

- Left Sidebar:** Contains links for Dashboard, VPN servers, VPN accounts, Settings, and About us.
- Server Information:** A table displaying system details:

Hostname:	dev.softkeel.com
OS Name:	Debian GNU/Linux 11 (bullseye)
Architecture:	amd64
CPU:	Common KVM processor
CPU Threads:	4
Load:	0.02, 0.03, 0.14
Memory:	7956 MB Used: 70%
Timezone:	Europe/Warsaw
- PUQVPNCP Status:** A table showing the service status:

Status:	OK
Version:	1.0
WireGuards:	109
VPN Accounts:	548/550
License:	2023-11-13T18:38:43+01:00

Buttons for 'License' and 'Reload' are present.
- WireGuard, Firewall, and DNS server:** Three sections with their respective versions and configuration links:

WireGuard	Firewall	DNS server
wireguard: 1.0.20210223-1	iptables: 1.8.7-1	bind9: 1:9.16.33-1~deb11u1
wireguard-dkms: 1.0.20210219-1	iproute2: 5.10.0-4	Running: PID: 3092940

Each section has a 'Configure' button.

In order for the system to start the procedure for obtaining an SSL certificate from Let's Encrypt, it is necessary.

In the configuration file, enable the use of SSL and enter the domain name.

```
nano /etc/puqvpncp/puqvpncp.conf
```

```
LetsEncryptSSL=yes
```

```
Domain=XXXXXX.XXX
```

Restart the **PUQVPNCP** service

```
service puqvpncp restart
```

After these steps, the first time you connect to the server via the https protocol, the system will request an SSL certificate and automatically renew it if necessary.

ATTENTION. After activating SSL, the system will only work in the https protocol on port 443. A redirect is also set from port 80 to port 443.

To connect to the server via the https protocol, use only the domain that was set in the configuration file.

Otherwise, you will get an error that SSL is not working correctly.

6. License configuration is available in the menu item **Settings->License**

By default, the system limit is 50 users and the API is disabled.

Dashboard

VPN servers

License

Creation of access API

API Access Hashs, go to the section Settings->API

API Access Hashs

Successfully

Name IP **Add**

Everything went well. Please save the hash. It has only been shown once.

Access hash **Copy hash**

Name	IP	Created data	Last Login	
test2	1.1.1.1	2022-11-18T10:38:37+01:00		Delete
TEST	79.184.10.59	2022-11-15T15:23:05+01:00	2022-11-17T09:36:57+01:00	Delete
piotr2	79.184.10.59	2022-11-17T14:26:40+01:00	2022-11-17T14:42:08+01:00	Delete
Piotr	79.184.10.59	2022-11-16T14:23:48+01:00		Delete

Enter the name and IP address of the WHMCS server and click the **ADD** button

Attention.
The generated Access hash will only be shown once. Copy it, it will be needed during configuration of the product server in the WHMCS system.

Accept the fact that once the Access Hashs API is created, it will only be shown once. Each API Access Hash only works from a specific IP address.

8. Creation of access API

Add new WireGuard is available in the menu item **VPN servers->WireGuard->Click Create**

PUQVPNCP

Dashboard

VPN servers

WireGuard

VPN accounts

Settings

About us

? HELP ?

ruslan (79.184.7.48)

Logout

WireGuard

Create

Find By Name

Peers

Find By Interface

Find By Network

Internal Traffic

Port

External IP

DNS

Peer Download

Peer Upload

1-4819	0	wg7	10.0.6.1/24	YES	51827	77.87.125.209	8.8.8.8 1.1.1.1	3M	4M	Edit	Delete
1-4820	1	wg8	10.0.7.1/24	YES	51828	77.87.125.200	8.8.8.8 1.1.1.1	3M	4M	Edit	Delete
77_87_125_209	7	wg110	10.0.110.1/24	YES	51930	77.87.125.200	10.0.110.1	12M	12M	Edit	Delete

PUQVPNCP

Dashboard

VPN servers

VPN accounts

Settings

About us

? HELP ?

ruslan (79.184.7.48)

Logout

WireGuard / Add WireGuard

Add

Name

Default_7

Private key

WE+qTOu2TvtwKtuMs5hjecxO2zFXqC

Public key

O1f/+xedMQqJj+cRE+DOfk6wDawH5J

Interface name

wg24

IP/MASK

10.0.22.1/24

Internal Traffic

DROP

Port

51844

External IP

77.87.125.200

DNS 1

10.0.22.1

DNS 2

77.87.125.200

Peers configuration

Bandwidth download (in M) per peer

0

Bandwidth upload (in M) per peer

0

Enter or edit the parameters of the new server/interface and click the **ADD** button

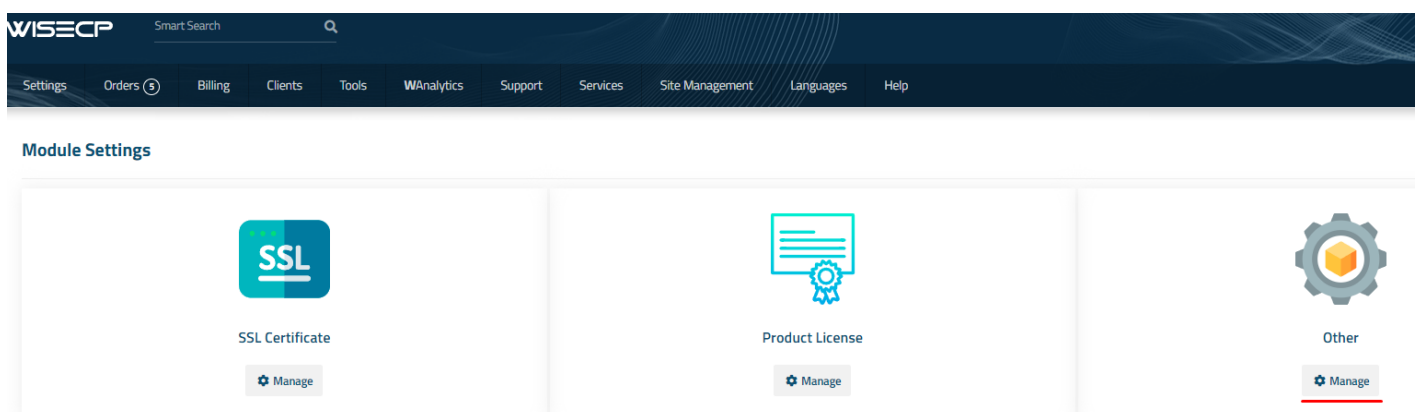
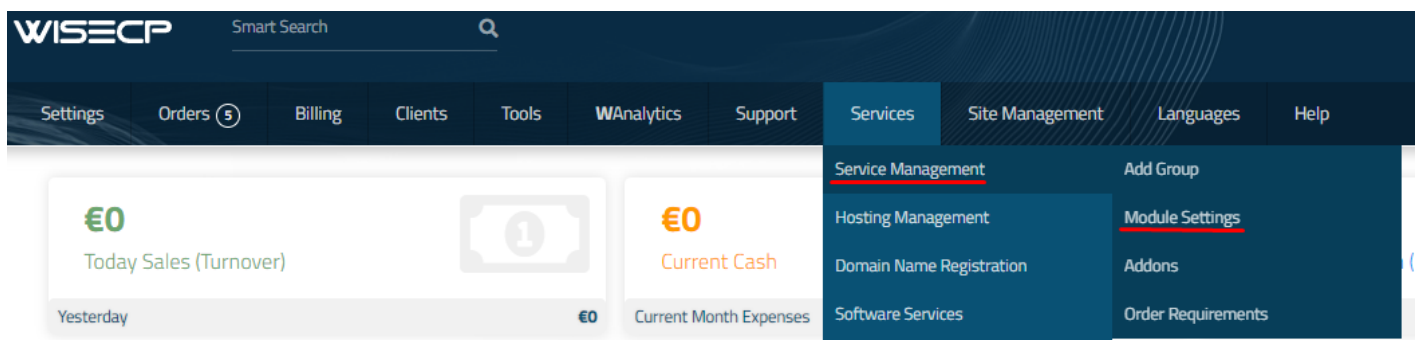
Add server (PUQVPNCP) in WISECP

WireGuard VPN module **WISECP**

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1. Log in to the administrative area of your **WISECP**.
2. Go to module configuration.

Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ WireGuard VPN



Other

Other

Search Within Modules

Write something...



-
-
- PUQ WireGuard VPN
-

3. In the opened page, click the '**Add Server**' button.

WISECP

Smart Search

Q

Settings
Orders 5
Billing
Clients
Tools
WAnalytics
Support
Services
Site Management
Languages
Help

Other

Dashboard / Module Settin



PUQ WireGuard VPN

License key

58T11Z- -1J1ASA

2023-12-18T10:38:13+01:00

Check and Save

Version: 1.0.1

Web Site

Documentation

Changelog

+ Add New Server

Server Groups

Servers PUQVPNCP

10

Show Record

Search

#	Name	Status	Group	Default	IP/Domain	Usage Stats	
23	dev.softkeel.com - B	active	Default	✓	dev.softkeel.com	3/12	
24	dev.softkeel.com - A	active	Default	⊗	466	0/44	

Showing records from 2 to 1 - 2

Prev 1 Next

4. On the opened page, enter all the necessary information:

- **Name:** Displayed name of the server.
- **Maximum Number of Accounts:** The number of services that can be on this server.
- **Server Group:** Optionally, choose the server group.
- **IP Address or Domain:** The address of the PUQVPNC server you are connecting to.
- **Access Hash:** API key that you created in the previous step on the PUQVPNC server.
- Check the **SSL** box if you want to use SSL-encrypted connection. If necessary, specify the port and perform a connection test.

Initial Settings

All Modules

PUQ WireGuard VPN

Go to Back

PUQcloud

Add New Server

Name

dev.softkeel.com

Maximum Number of Accounts

100

Server Group

Default

Default

☐ Set as default server in group

IP Address or Domain

dev.softkeel.com

✓ Connection test Successful

Access Hash

SSL

☒ Connect using SSL

Port

443

☐ Change standard port

Test Connection

Test Connection

Add New Server

Turn Back

Service configuration

WireGuard VPN module **WISECP**

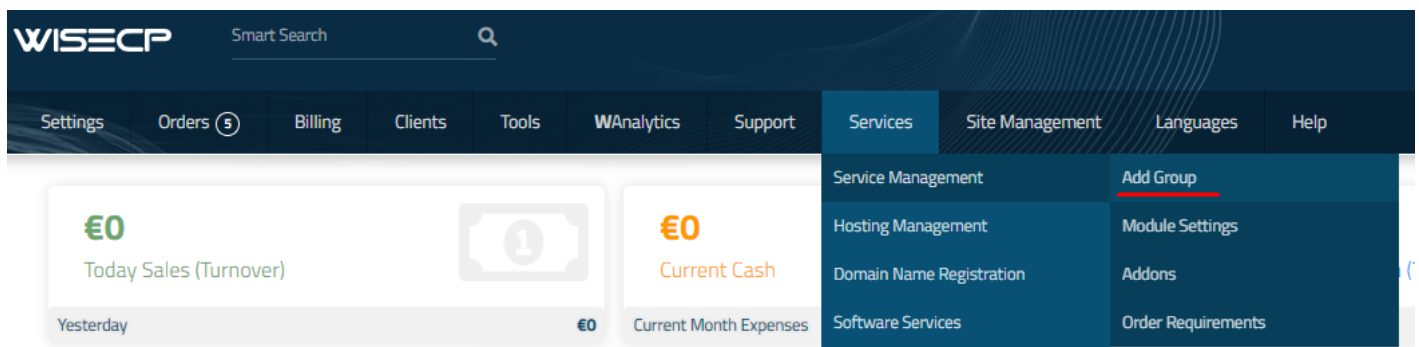
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If you do not have a **Service Group** where you want to place the new service, you need to create a new **Service Group**

1. Log in to the administrative area of your **WISECP**.
2. Create New Service Group

Go to

Services -> Service Management -> Add Group



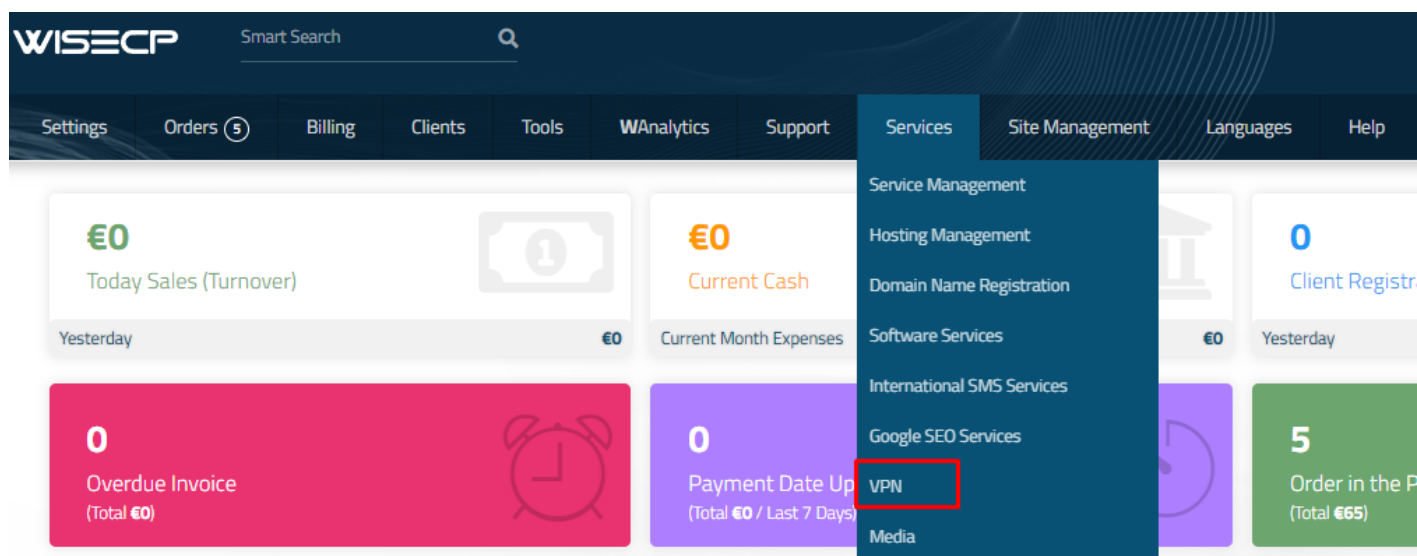
Enter all the necessary data and click the '**Create Group**' button.

The screenshot shows the 'Create New Service Group' form in the WISECP dashboard. The form is titled 'Create New Service Group' and includes a green banner at the top stating: 'Create a new service group, you can also create new categories and manage the existing one from here.' The form is divided into two columns. The left column contains labels for various fields: Title, Short Detail, Listing Template, Status, Background Image, Group Colour, Order Upgrades, and External HTML Code. The right column contains the corresponding input fields: a text box for 'Title' with the value 'VPN', a text box for 'Short Detail' with the value 'Short Group Description', a radio button selection for 'Listing Template' (with 'Box List' selected), a dropdown for 'Status' with the value 'Enable', an image upload area for 'Background Image' with a placeholder image, a text box for 'Group Colour' with the value '#FFFFFF', a checkbox for 'Order Upgrades' (unchecked), and a text area for 'External HTML Code' with the placeholder text 'Paste your HTML code to this field (Optional)'. At the bottom of the form, there is a small note: 'You can optionally add external HTML code and customize it. There should not be any incorrect or incomplete HTML codes, otherwise page structure will be empty'.

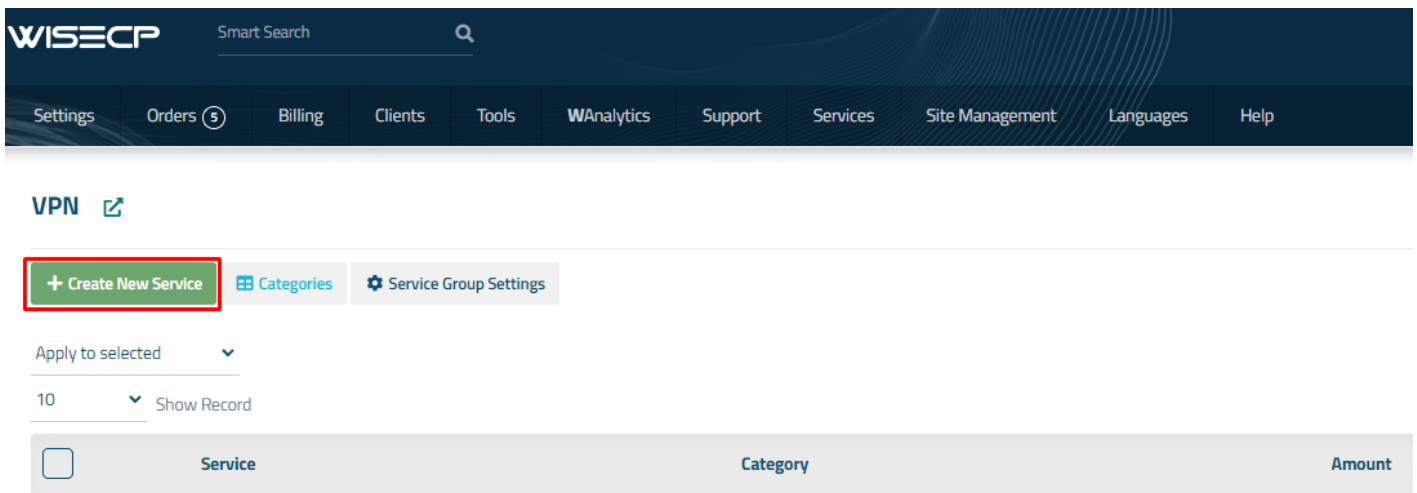
3. Adding a New Service

Go to

Services -> our service group where you need to add the new service.

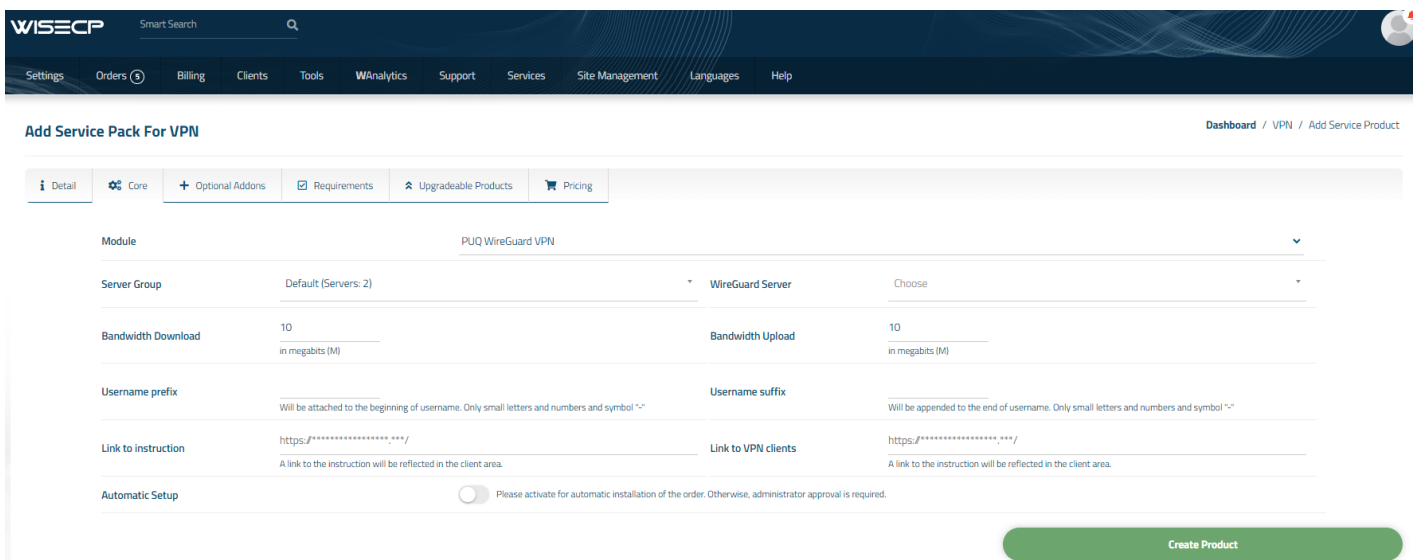


In the opened window, click the '**Create New Service**' button.



On the opened page, enter all the necessary details for your new service and navigate to the '**Core**' tab.

Select the '**PUQ WireGuard VPN**' module from the drop-down list of modules.



4. Fill in the configuration options according to your preferences.

- **Server Group** is the group of servers from which a server will be chosen for provisioning the service
- **WireGuard Server** is the name of the WireGuard server that was created in PUQVPNC

Attention:

The **WireGuard Server** field is updated only after saving or adding the service. You will need to revisit this section to select the **WireGuard Server** and save the service. Additionally, the **WireGuard Server** must be created on all servers within the group.

- **Bandwidth Download** and **Bandwidth Upload** represent the connection speed that will be restricted by these parameters, in megabits per second, respectively.
- **Username Prefix** will be added at the beginning of the username during user creation

and is used for uniqueness

- **Username Suffix** will be added at the end of the username during user creation and is also used for uniqueness
- **Link to Instruction** Provide the link to the instruction for the service, and it will be displayed in the client area as a separate button
- **Link to VPN Clients** Provide the link to the page for downloading VPN clients for the service, and it will be displayed in the client area as a separate button
- **Automatic Setup** Please activate for automatic installation of the order. Otherwise, administrator approval is required.

WireGuard clients configuring

WireGuard clients configuring

WireGuard Official clients

WireGuard VPN module **WISECP**

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Our solution works great with official client programs. We strongly invite you to use them.



You can download from the

<https://www.wireguard.com/install/>

Please always download latest versions. The following list is intended as a general direction only.

Windows [7, 8.1, 10, 11, 2008R2, 2012R2, 2016, 2019, 2022 - v0.5.3]

[Download Windows Installer](#)

[Browse MSIs](#)

macOS [[app store](#) - v1.0.15]

[Download from App Store](#)

Android [[play store](#) - vunknown - out of date & [f-droid](#) - v1.0.20220516]

[Download from Play Store](#)

[Download from F-Droid](#)

iOS [[app store](#) - v1.0.15]

[Download from App Store](#)

Debian/Ubuntu

```
$ sudo apt install wireguard
```

Android WireGuard client configuration

WireGuard VPN module **WISECP**

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

This is a one-time link with configuration options

2. Since we are setting up a connection for an android device, we need the WireGuard client for android. To download the client on your phone, open the link on your mobile device and click "Download client Android"

WireGuard

3. After you click on the "Download client Android" button, your application store will open, where you need to install your client for Android. Click "Install" to install the application on your mobile device.

This is a one time link with configuration options

4. After completing the app installation, open the app to configure your VPN connection.

5. This is how the main window of the application looks like, which has no configured connections. To set up a new VPN connection, you must press the plus button.

6. After you click on the button that allows you to create a new connection, you will be presented with several options. Now we will use the QR code scanning method. Click on



the "SCAN FROM QR CODE" button to start scanning.

Later in this manual, **in point number 13**, we will look at creating a connection using a configuration file.

7. It is worth noting that if you are using the application for the first time, your device will ask you if you can allow access to the camera. You need to allow access to the camera, otherwise scanning will not be possible.

8. After you can already start scanning and see that your device is ready, point your camera at the QR code you received.

9. After scanning the code, when the scan was successful, the application will prompt you to enter a name for the new connection. Enter a name and save the new configuration by clicking on the "CREATE TUNNEL" button.

10. After you save your new connection, you will see a list of your VPN connections. Find the required connection to activate it and switch the slider to activation mode.

11. It is worth noting that if you have activated your connection for the first time, the system will ask you if it is possible to add such a connection, you must agree that a new connection will be established in order to establish a new connection.

12. And so, now your connection is established, you can notice that the slider is in activation mode and you can see a special system icon in the notification bar, which indicates that the VPN connection is activated.

13. To create a connection using a configuration file: You need to download the configuration

file to your mobile device. To download this file, click on the "Download config file" button.

14. Once your configuration file has been downloaded to your device, you need to proceed. You need to return to the "WireGuard" application to import your configuration file. Click "IMPORT FROM FILE OR ARCHIVE" to start importing the configuration file.

15. Next, you will be prompted to find your configuration file. You need to find the configuration file and select it.

16. After you select your configuration file, the connection will be created.

17. To connect to a new VPN connection, you need to activate the slider opposite to the activate position.

macOS WireGuard client configuration

WireGuard VPN module **WISECP**

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

2. In order to start the configuration you need to download the configuration file. To download the configuration file, click the "Download config file" button.

3. Save the file to downloads or any other place to import later.

4. Since we are setting up a connection for an android device, we need the WireGuard client for macOS. To download the client on your device, open the link on your device and click "Download client macOS".

5. After you click on the "Download client macOS" button, your application store will open, where you need to install your client for macOS. Click "Get" and after "Install" to install the application on your device.

6. After completing the app installation, open the app to configure your VPN connection. 

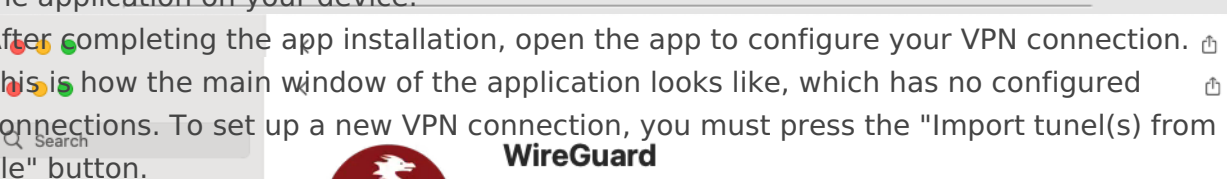
7. This is how the main window of the application looks like, which has no configured connections. To set up a new VPN connection, you must press the "Import tunnel(s) from file" button.

8. Next, you will be prompted to find your configuration file. You need to find the configuration file and select it.

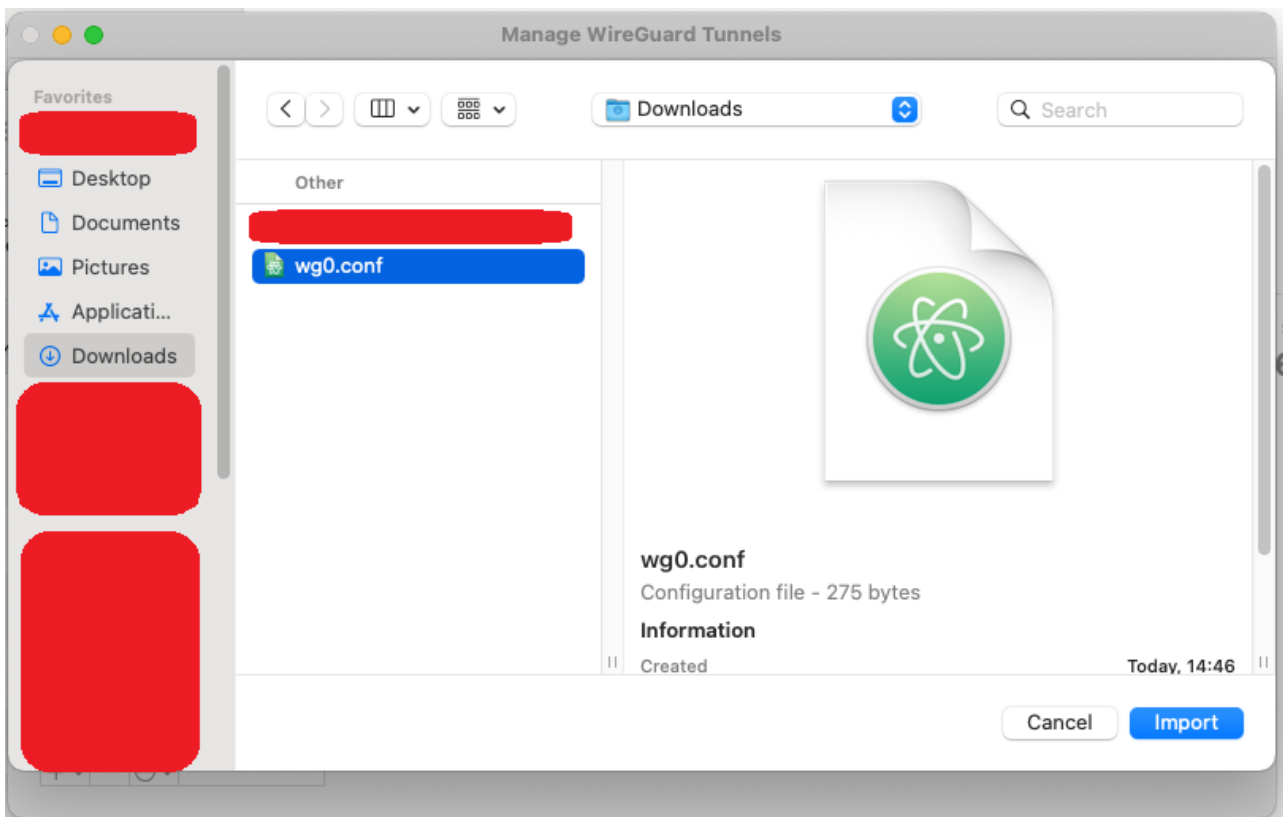
This is a one-time link with configuration options



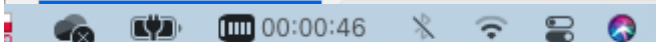
This is a one-time link with configuration options



Import tunnel(s) from file



9. After you select your configuration file, the connection will be created.
10. Click the "Activate" button. To activate your VPN connection.
11. Congratulations. Your VPN connection is active. We can see this by looking at the system icon bar.



Windows WireGuard client configuration

WireGuard VPN module **WISECP**

[Order now](#) | [Download](#) | [FAQ](#)

In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

2. In order to start the configuration you need to download the configuration file. To download the configuration file click the "Download configuration" button

3. Save the file to downloads or any other place to import later.

4. Since we are setting up a connection for an android device, we need the WireGuard client for Windows. To download the client on your device, open the link on your device and click "Download Client Windows".

5. Install the app on your device.

6. This is how the main window of the application looks like, which has no configured

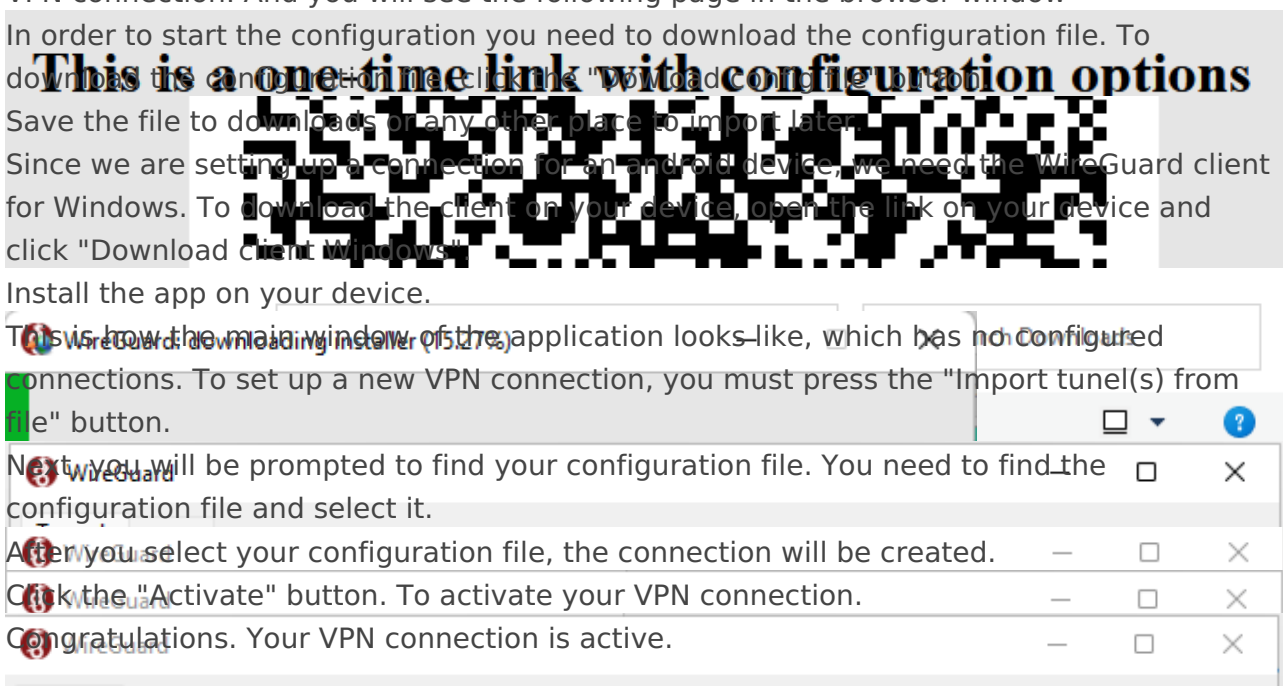
connections. To set up a new VPN connection, you must press the "Import tunnel(s) from file" button.

7. Next you will be prompted to find your configuration file. You need to find the configuration file and select it.

8. After you select your configuration file, the connection will be created.

9. Click the "Activate" button. To activate your VPN connection.

10. Congratulations. Your VPN connection is active.



Linux WireGuard client configuration

WireGuard VPN module **WISECP**

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

2. In order to start the configuration you need to download the configuration file. To download the configuration file click the "Download config file" button

This is a one time link with configuration options

3. Save the file to downloads or any other place to import later. You can download the configuration file and move it to your server, or you can create a new file and copy the configuration text into it. We will copy the configuration text into a new file in this WireGuard client setup guide.

4. Since we are setting up a connection for an Linux device, we need the WireGuard client for Linux. To download and install the client on your device, by command `sudo apt install wireguard`

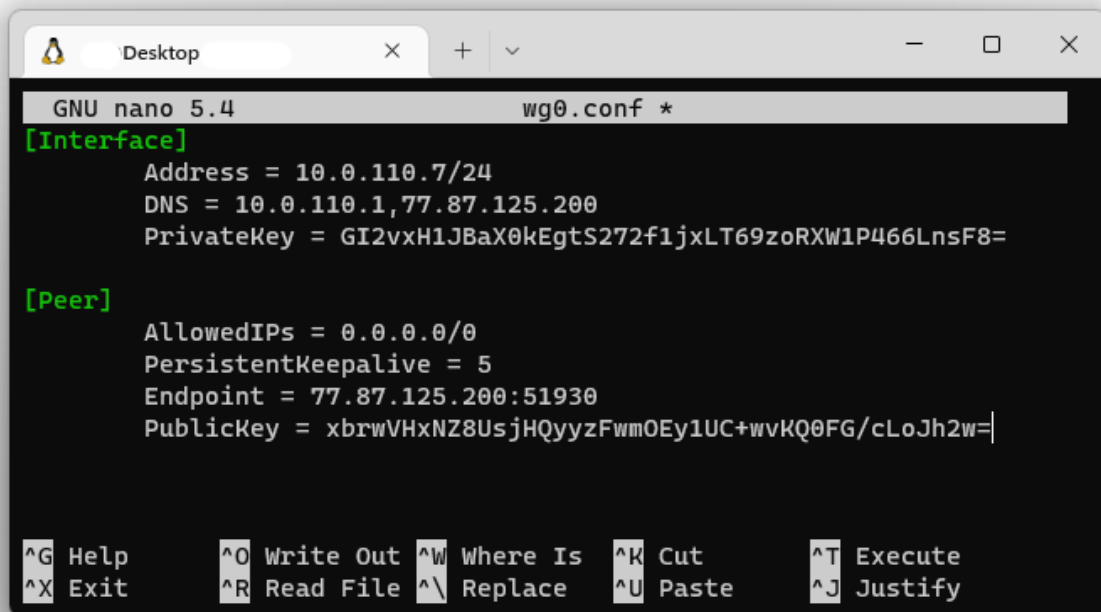
5. After installing the client, navigate to the folder `cd /etc/wireguard/` and create a configuration file. With the help of the command `nano wg0.conf`

6. Copy the configuration text into your terminal window.

```
[Interface]
Address = 10.0.110.7/24
DNS = 10.0.110.1,77.87.125.200
PrivateKey = GI2vxH1JBaX0kEgtS272f1jxLT69zoRXW1P466LnsF8=

[Peer]
AllowedIPs = 0.0.0.0/0
PersistentKeepalive = 5
Endpoint = 77.87.125.200:51930
PublicKey = xbrwVHxNZ8UsjHQyyzFwmOEy1UC+vvKQ0FG/cLoJh2w=
```





```
GNU nano 5.4          wg0.conf *
[Interface]
  Address = 10.0.110.7/24
  DNS = 10.0.110.1,77.87.125.200
  PrivateKey = GI2vxH1JBaX0kEgtS272f1jxLT69zoRXW1P466LnsF8=

[Peer]
  AllowedIPs = 0.0.0.0/0
  PersistentKeepalive = 5
  Endpoint = 77.87.125.200:51930
  PublicKey = xbrwVHxNZ8UsjHQyyzFwmOEy1UC+vvKQ0FG/cLoJh2w=

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace  ^U Paste     ^J Justify
```

7. Save the file, after saving the file you need to complete the connection.
Connect using the command: `sudo wg-quick up wg0`

WireGuard clients configuring

Mikrotik WireGuard client configuration

WireGuard VPN module **WISECP**

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Configuring Mikrotik as an WireGuard Client.

Make sure you have an up to date **routerOS** system.

Version must be at least: 7.6

```
[admin@VPN-CLIENT] > system package print
Columns: NAME, VERSION
# NAME      VERSION
0 routeros  7.6
```

Open a single-use shipment on the **WireGuard** section for the client's configuration request

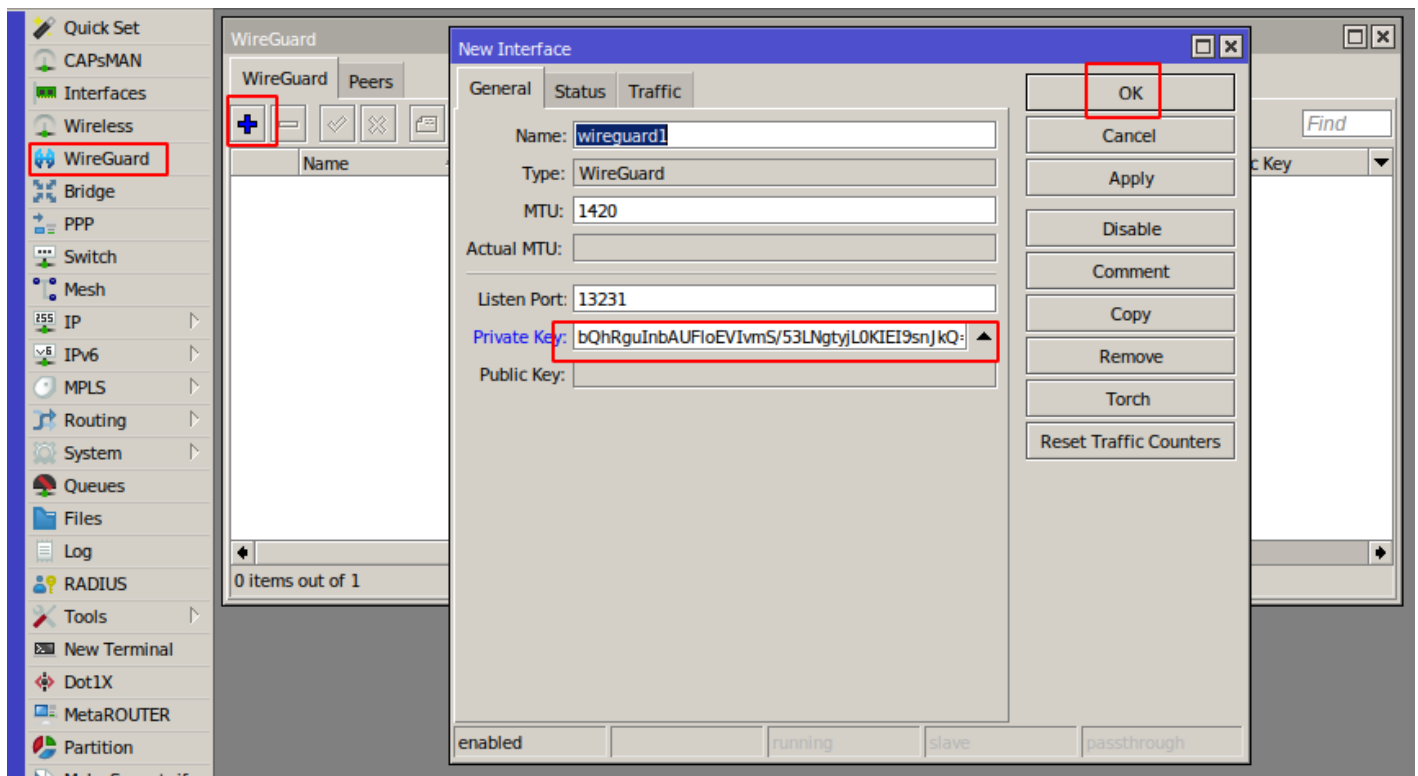
Download config file

```
[Interface]
  Address = 10.0.110.15/24
  DNS = 10.0.110.1,77.87.125.200
  PrivateKey = KgbQhRguInbAUFloEVlvmS/53LNgtYjL0KIEI9snJkQ=

[Peer]
  AllowedIPs = 0.0.0.0/0
  PersistentKeepalive = 5
  Endpoint = 77.87.125.200:51930
  PublicKey = xbrwVHxNZ8UsjHQyyzFwm0Ey1UC+wwKQ0FG/cLoJh2w=
```

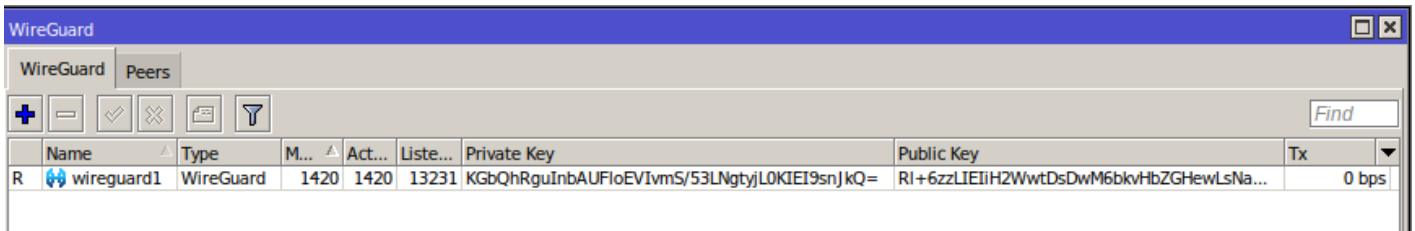
Login to Mikrotik via Winbox

Click on the menu item **WireGuard** In the window that opens, in the **WireGuard** tab, click the plus to add a new **WireGuard** interface



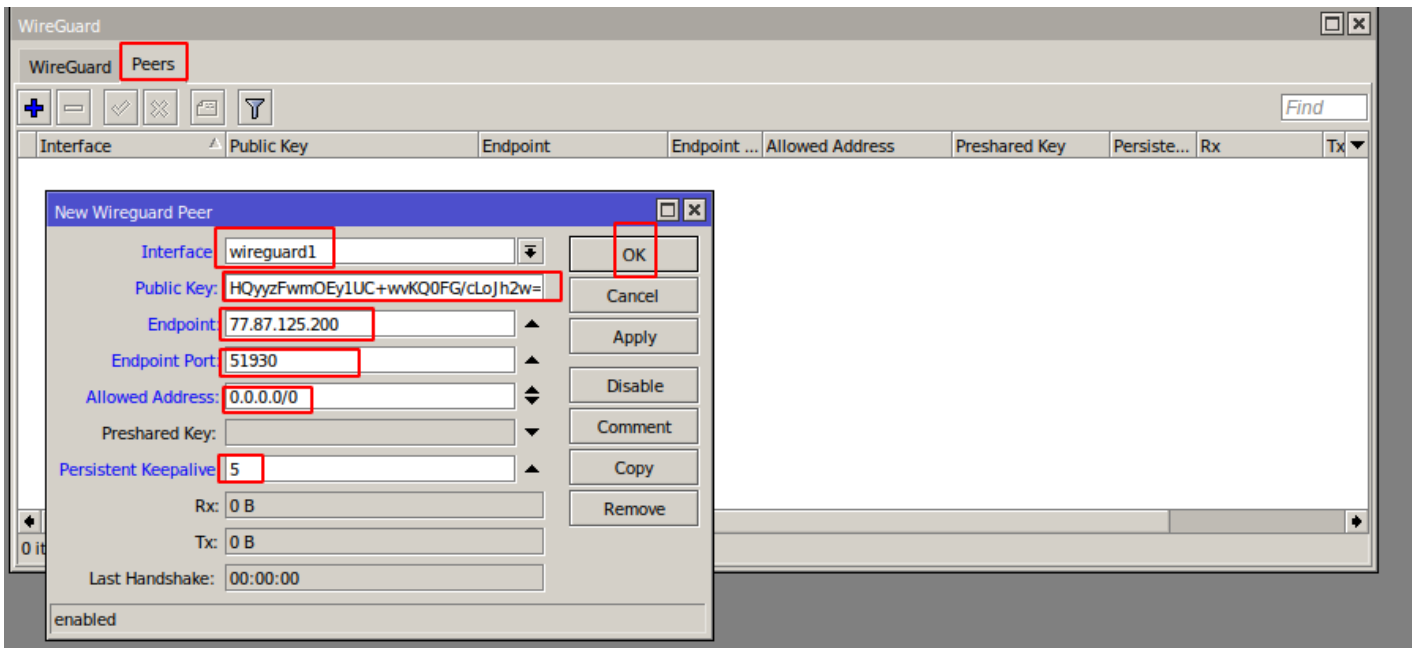
Copy the private key from the text configuration from the **[Interface]** section to the **PrivateKey** field in the **WireGuard** interface settings in **Mikrotik**

Click **OK** to create the interface



Go to the peers tab.

Click plus to add a new peer



Interface - Select the previously created **WireGuard** interface

Public key - Copy the public key from the text configuration from the **[Peer]** section to the Public key field

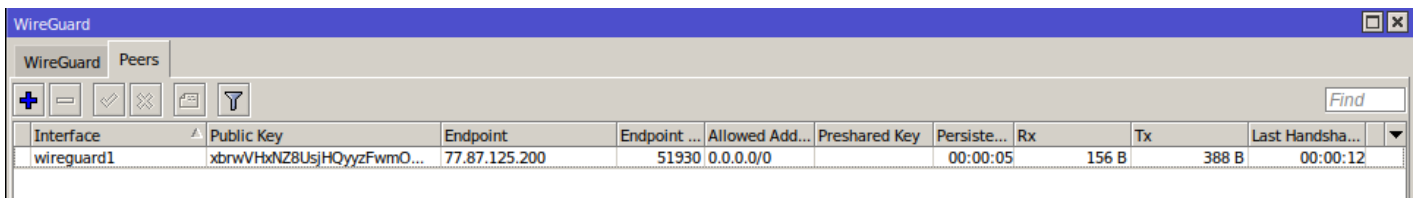
Endpoint - Copy the server **address** from the text configuration from the **[Peer]** section to the endpoint field

Endpoint Port - Copy the server **port** from the text configuration from the **[Peer]** section to the Endpoint Port field

Allowed Address - Copy **AllowedIPs** from the text configuration from the **[Peer]** section to the Allowed Address field

Persistent Keepalive - Copy the **PersistentKeepalive** from the text configuration from the **[Peer]** section to the Persistent Keepalive field

Click **OK** to create a peer

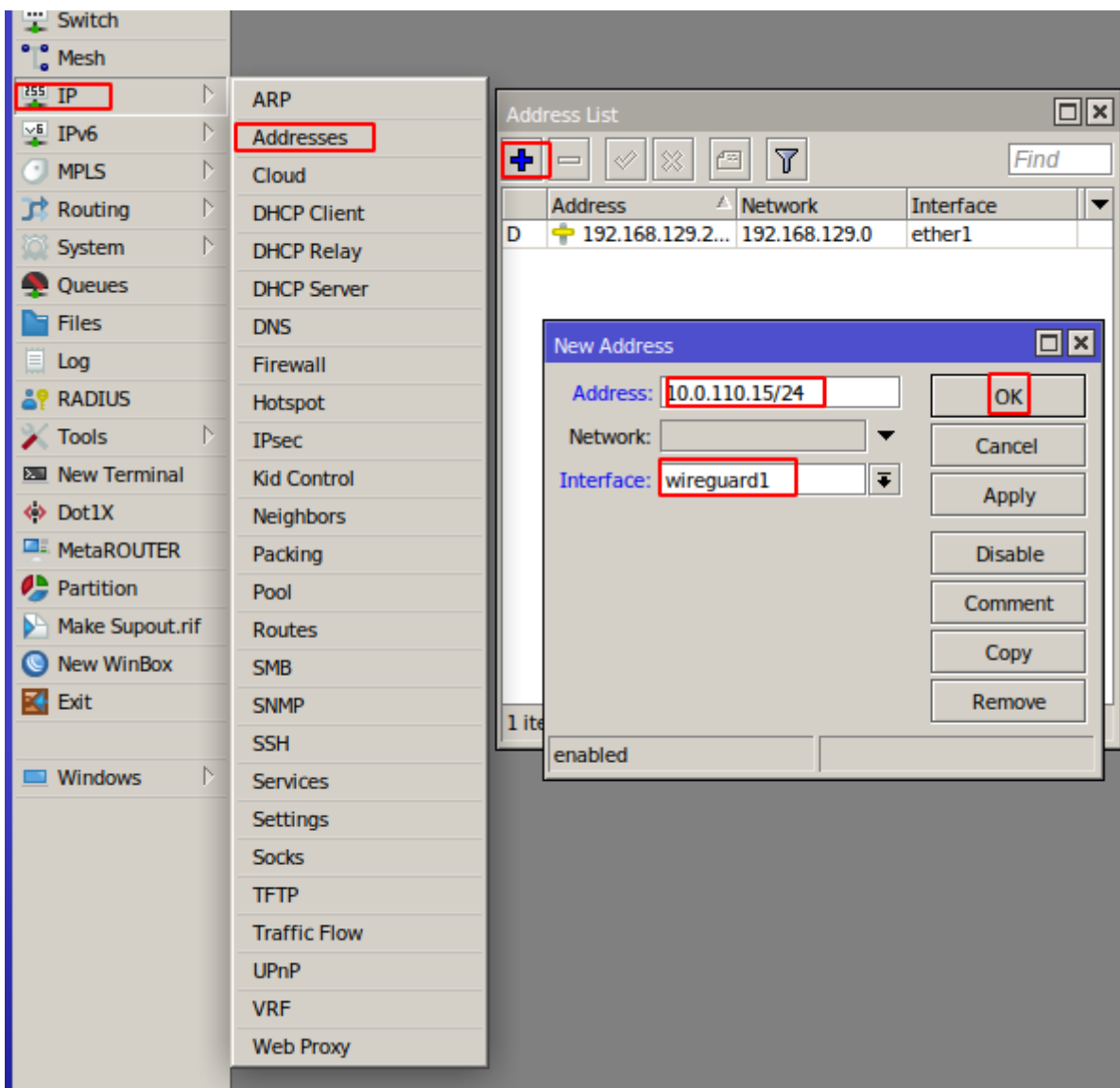


The image shows the 'WireGuard' window in a network configuration tool. It has a 'WireGuard' tab and a 'Peers' tab. Below the tabs is a toolbar with icons for adding, removing, and filtering. A table lists the configuration for the 'wireguard1' interface.

Interface	Public Key	Endpoint	Endpoint ...	Allowed Add...	Preshared Key	Persiste...	Rx	Tx	Last Handsha...
wireguard1	xbrwVHbNZ8UsjHQyyzFwmO...	77.87.125.200	51930	0.0.0.0/0		00:00:05	156 B	388 B	00:00:12

In order to have communication with the server, you need to set the address on the **WireGuard** interface

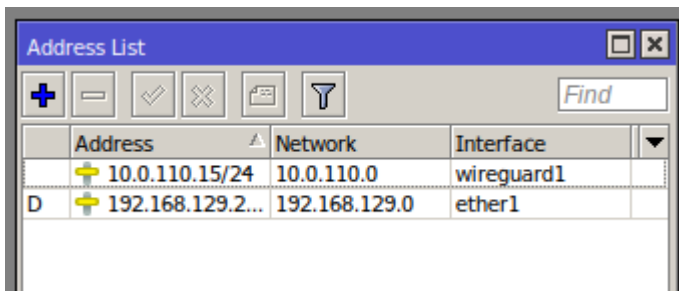
Go to the menu item **IP->Addresses** In the window that opens, click the plus to assign an IP address to the WireGuard interface



Adresse - Copy the Address from the text configuration from the **[Interface]** section to the Address field

Interface - Select the previously created **WireGuard** interface

Press the OK button to confirm



You also need to configure the traffic routes you need at your discretion.

WireGuard clients configuring

iOS WireGuard client configuration

WireGuard VPN module **WISECP**

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

This is a one-time link with configuration options

WireGuard

[Download client Android](#)[Download client iOS](#)[Download client Windows](#)[Download client macOS](#)[Official clients WireGuard](#)[Download config file](#)

```
[Interface]
Address = 10.0.111.16/24,2a11:ff00::111/120
DNS = 10.0.111.1,2a11:ff00::101,2a11:ff00::8
PrivateKey = G0mgdb66DPex6YdP2/A4YDGtoAdAllgVAPsyhm1HQeB=

[Peer]
PersistentKeepalive = 25
Endpoint = dev.softkeel.com:51030
PublicKey = xbrwVhtN280sJH0yyzFwm0Ey1UC+vvKQ8FG/cLoJh2w=
AllowedIPs = 0.0.0.0/0, ::/0
```

IKEv2

[Download Certificate CA](#)

Server: dev.softkeel.com

Username: user_3

Password: dupa

[Download Profile](#)

2. Since we are setting up a connection for an iOS device, we need the WireGuard client for iOS. To download the client on your phone, open the link on your mobile device and click "Download client iOS".

This is a one-time link with configuration options

WireGuard

Download client Android

Download client iOS

Download client Windows

Download client macOS

Official clients WireGuard



3. After you click on the "Download client iOS" button, your application store will open, where you need to install your client for iOS. Click "Install" to install the application on your mobile device.

12:33

LTE

< Search



WireGuard

Fast, modern, secure VPN



26 RATINGS

4.2



AGE

4+

Years Old

CATEGORY



Utilities

WireC

What's New

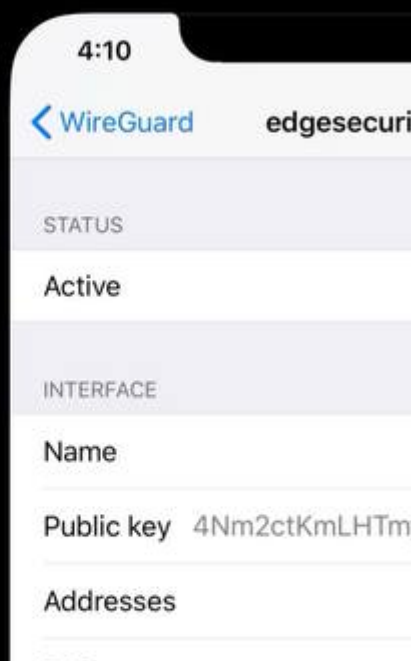
Version 1.0.16

Small bug fixes.

[Version History](#)

5mo ago

Preview



4. After completing the app installation, open the app to configure your VPN connection.

12:33

LTE

< Search



WireGuard

Fast, modern, secure VPN

OPEN



26 RATINGS

4.2



AGE

4+

Years Old

CATEGORY



Utilities

What's New

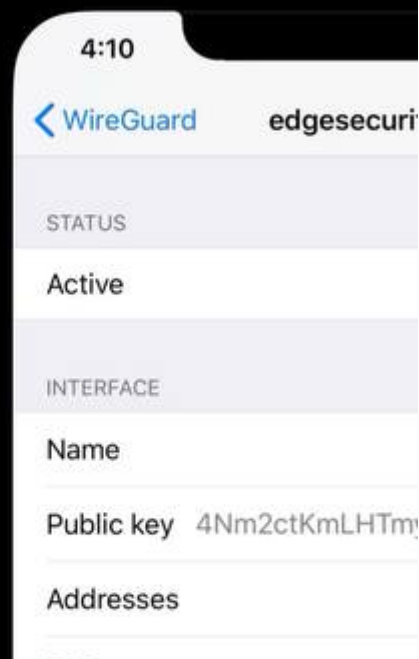
Version 1.0.16

Small bug fixes.

[Version History](#)

5mo ago

Preview



5. This is how the main window of the application looks like, which has no configured connections. To set up a new VPN connection, you must press the plus button or "Add a tunnel" button.

12:22 

 LTE 

Settings

WireGuard



Add a tunnel

6. After you click on the button that allows you to create a new connection, you will be presented with several options. Now we will use the QR code scanning method. Click on the "SCAN FROM QR CODE" button to start scanning.

Later in this manual, **in point number 10**, we will look at creating a connection using a configuration file.

12:22 

 LTE 

Settings

WireGuard



Add a tunnel

Add a new WireGuard tunnel

Create from file or archive

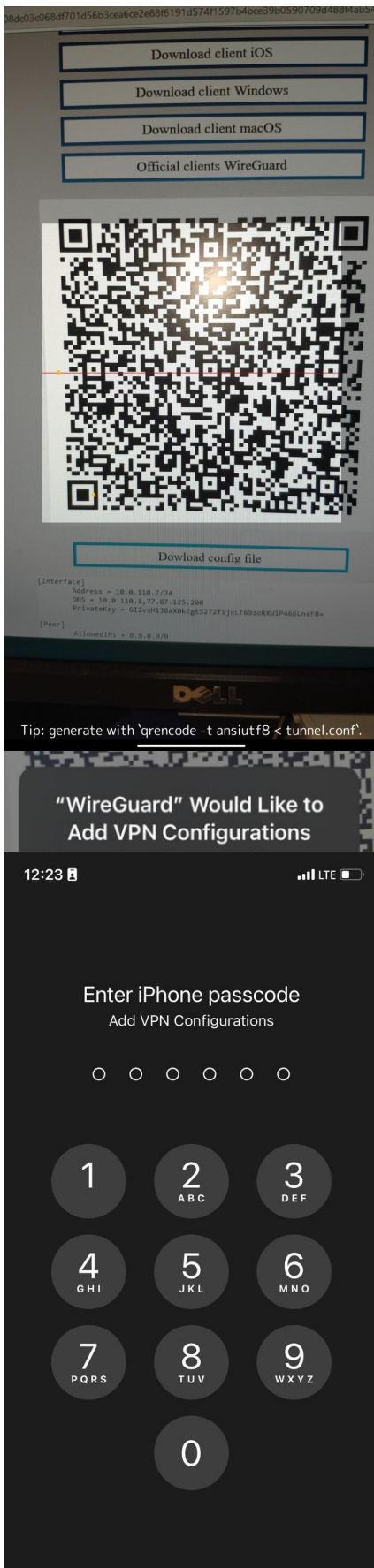
Create from QR code

Create from scratch

It is worth noting that if you are using the application for the first time, your device will ask you if you can allow access to the camera. You need to allow access to the camera, otherwise scanning will not be possible.

7. After you can already start scanning and see that your device is ready, point your camera at the QR code you received.

It is worth noting the system will ask your password



8. After scanning the code, when the scan was successful, the application will prompt you to enter a name for the new connection. Enter a name and save the new configuration by clicking on the "Save" button.

12:22

LTE

Scan QR code

Cancel

Download client macOS

Please name the
scanned tunnel

Cancel

Save

q w e r t y u i o p

a s d f g h j k l

↑ z x c v b n m ↵

9. After you save your new connection, you will see a list of your VPN connections. Find the required connection to activate it and switch the slider to activation mode.

12:23 



◀ Settings

Settings

WireGuard



dev.softkeel.com



10. **To create a connection using a configuration**

file: You need to download the configuration file to your mobile device. To download this file, click on the "Download config file" button.

12:47

LTE

This is a one-time link with configuration options

WireGuard

Download client Android

Download client iOS

Download client Windows

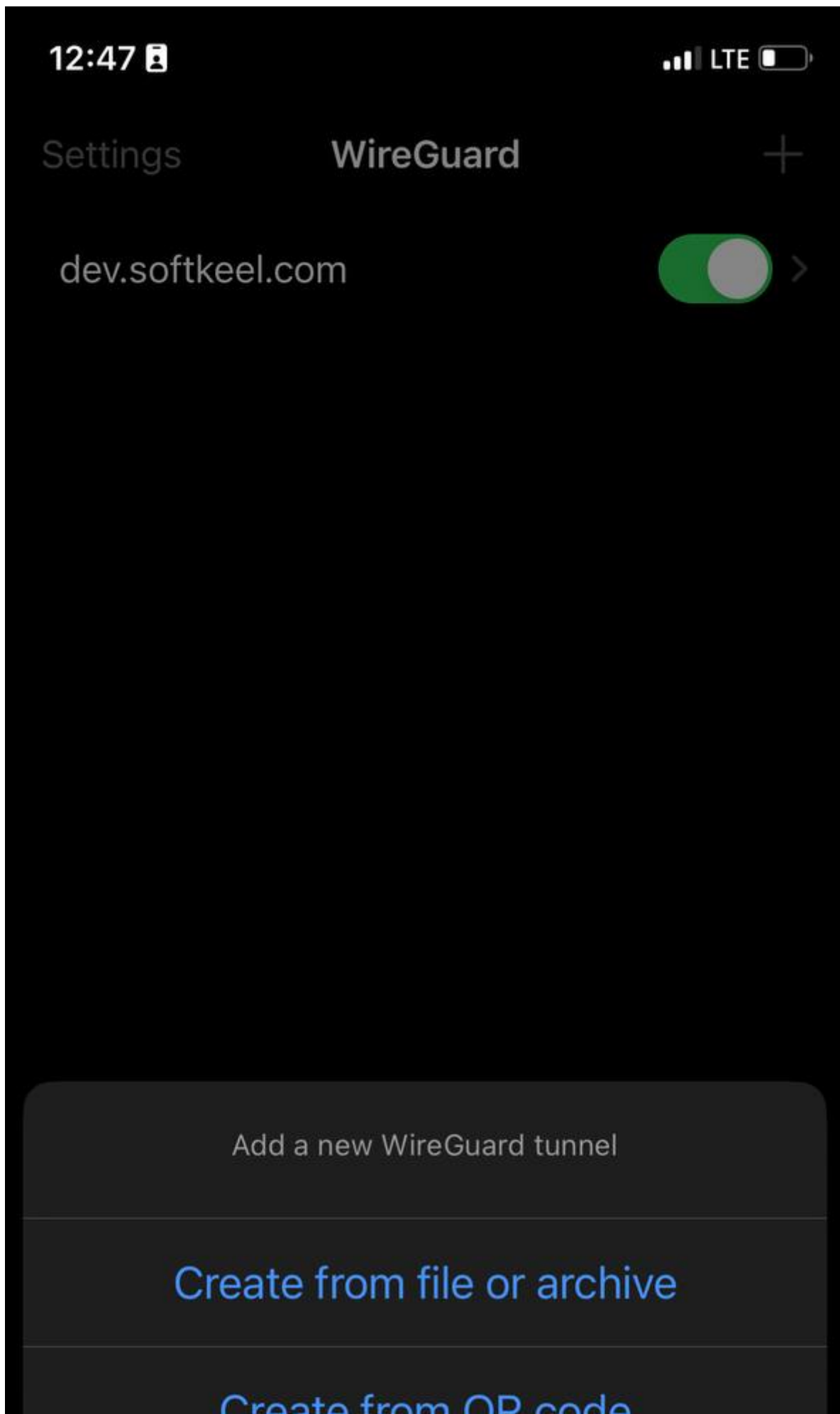
Download client macOS

Official clients WireGuard



Download config file

11. Once your configuration file has been downloaded to your device, you need to proceed. You need to return to the "WireGuard" application to import your configuration file. Click "Create from file or archive" to start importing the configuration file.



12. Next, you will be prompted to find your configuration file. You need to find the configuration file and select it.

13:15

LTE

Recents



Cancel

Search



wg0

12:47

319 bytes



jpg2png.zip

19/06/2023

70 KB



11_new_2019

-2020.zip



12/05/2020

12 MB

13. After you select your configuration file, the connection will be created.
14. To connect to a new VPN connection, you need to activate the slider opposite to the activate position.

12:47 

VPN

Settings

WireGuard



dev.softkeel.com



wg0



Admin Area

Order Detail

WireGuard VPN module **WISECP**

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Navigate to the service you want to manage, then go to the '**Core**' tab.

WireGuard VPN 5 Order Detail

Dashboard / Orders / WireGuard VPN 5 Order Detail

Detail

Core

Blocks

+ Order Addons

Requirements

Upgrade / Downgrade

History

Cancellation / Refund

API Module

PUQ WireGuard VPN

API answer OK

Name	Password	Status	IP	Speed download	Speed upload
puq-2-94-cloud	BVBXHqTN	enable	10.0.1.6	5M	5M

Online

WireGuard Online	WireGuard Endpoint	WireGuard Latest handshake	IKEv2 online	IKEv2 Endpoint	IKEv2 Uptime
n/a	n/a	n/a	n/a	n/a	n/a

0.0.0.0/0 -> 10.0.1.6 MARK 0x1010 Pkt:0 Bytes:0
10.0.1.6 -> 0.0.0.0/0 MARK 0x040 Pkt:0 Bytes:0

ens10 --> class htb 1:2112 root leaf 2112: prio 0 rate 100bit cell 100bit burst 1600b cburst 1600b
Sent 709950 bytes 1897 pkt (dropped 0, overlimits 204 requests 0)
backlog 0b 0p requests 0
ens19 --> class htb 1:2112 root leaf 2112: prio 0 rate 100bit cell 100bit burst 1600b cburst 1600b
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requests 0)
backlog 0b 0p requests 0
ens18 --> class htb 1:4112 root leaf 4112: prio 0 rate 100bit cell 100bit burst 1600b cburst 1600b
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requests 0)
backlog 0b 0p requests 0
ens19 --> class htb 1:4112 root leaf 4112: prio 0 rate 100bit cell 100bit burst 1600b cburst 1600b
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requests 0)
backlog 0b 0p requests 0
wg1 --> class htb 1:4112 root leaf 4112: prio 0 rate 50bit cell 50bit burst 1600b cburst 1600b
Sent 91386 bytes 1944 pkt (dropped 0, overlimits 354 requests 0)
backlog 0b 0p requests 0

Username

puq-2-94-cloud

Password

BVBXHqTN

Server

devsoftkeel.com - B

Dedicated IP

10.0.1.6

Overwrite package settings

☐ Overwriting the package settings is necessary to personalize the service if you need it.

Send changes to server

☐ To apply the changes on the server, it is necessary to check this checkbox.

Update

In the opened tab, you have a view of the online status of the service. The available online information includes:

- Connection status to the API
- Information about the VPN account on the PUQVPNCNCP server
- Diagnostic information about the account (online status, firewall rule counters, and so on).

Also, below are fields with the client's personal data, such as Username, Password, Server, and Dedicated IP.

You can also individually override package options for the client by checking the 'Overwrite package settings' box.

After modifying the configuration options, check the '**Send changes to server**' box to save the data to the PUQVPNCP server.

Username	puq-2-94-cloud	Password	8VDXHqTN
Server	dev.softkeel.com - B	Dedicated IP	10.0.1.6
Server Group	Default (Servers: 2)	WireGuard Server	Default
Bandwidth Download	5 in megabits (M)	Bandwidth Upload	5 in megabits (M)
Username prefix	puq- Will be attached to the beginning of username. Only small letters and numbers and symbol "-"	Username suffix	-cloud Will be appended to the end of username. Only small letters and numbers and symbol "-"
Link to instruction	https://puq.pl A link to the instruction will be reflected in the client area.	Link to VPN clients	https://puqcloud.com A link to the instruction will be reflected in the client area.
Overwrite package settings	☒ Overwriting the package settings is necessary to personalize the service if you need it.		
Send changes to server	☐ To apply the changes on the server, it is necessary to check this checkbox.		
Update			

Note: When changing the Server Group, Server, and WireGuard Server fields, make sure you have a user with the username as specified in the 'Username' field pre-created on the new server. Otherwise, you will need to recreate the service for your client.

Client Area

Product Home Screen

WireGuard VPN module **WISECP**

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Available options in the client panel:

- Links in the form of buttons to the instruction and VPN clients
- General information about the service
- Password change option (for IKEv2)
- One-time link generation button for transmitting authorization data
- Option to download WireGuard configuration as a file
- QR code for WireGuard configuration
- Server certificate download button (for IKEv2)
- Download button for the profile for the strongSwan mobile application (for IKEv2)
- VPN connection status

Screenshot of the client area



Buy New Service

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» VPN

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Support

My Account

Reseller Program

Knowledge Base



User manual



Download VPN client

VPN Protocols

WireGuard, IKEv2

Bandwidth download/upload

5/5 M

IP address

10.0.1.6

Username

puq-2-94-cloud

Password

Generate

BVBXHqTN

Create one-time link

Save

WireGuard configuration

WireGuard online: **yes**
213.134.190.109:13410
2023-11-19 22:40:26

DOWNLOAD CONFIG



[Interface]

Address = 10.0.1.6/24
DNS = 10.0.1.1, 77.87.125.200
PrivateKey = PHLnQ8CUTCkygd38ZK9uPTbUSHhgLiGacTyclpiQouk=

[Peer]

Endpoint = 77.87.125.200:51821
PublicKey = qclMpOq4ztUV40UwMlfnE1St8oAHgVdAa8HIZ0Fh7nI=
AllowedIPs = 0.0.0.0/0

IKEv2 configuration

IKEv2 online: **not**

DOWNLOAD CERTIFICATE

DOWNLOAD Profile

Server: dev.softkeel.com

Username: puq-2-94-cloud

Password: BVBXHqTN



User manual



Download VPN client

VPN Protocols	WireGuard, IKEv2	
Bandwidth download/upload	5/5 M	
IP address	10.0.1.6	
Username	puq-2-94-cloud	
Password	Generate	8VBXHqTN

Create one-time link

Save

WireGuard configuration

WireGuard online: **yes**
213.134.190.109:13410
2023-11-19 22:40:26

DOWNLOAD CONFIG



IKEv2 configuration

IKEv2 online: **not**

DOWNLOAD CERTIFICATE

DOWNLOAD Profile

Server:	dev.softkeel.com
Username:	puq-2-94-cloud
Password:	8VBXHqTN